

### **ABSTRACT OF THE DISCLOSURE**

In a method and device for, generating computed tomography images of a periodically moving organ of an organism, the organ having regions with rest phases and movement phases and the rest phases of different regions ensuing at different points in time, an x-ray source is moved around the body of the organism to be examined to generate projections serving for the image generation during at least one rotation of the x-ray source around the subject to be examined and during a duration that is at least equal to a period of the motion. The projection data are analyzed as to whether the data were acquired during a rest phase or movement phase of a respective region of interest of the organ, and an image of the organ is reconstructed using only data acquired during a rest phase of a respective region of interest of the organ.

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